"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEV, Yu. V.

DZHELEPOV, V.P. FRIEL, M., GERSHTEYN, S.S., KATYSHEV, Yu. V., MOSKALEV, V.I., YERMOLOV, P. F.

"Experimental Investigation of Mu^- Mesonic Atomic Processes in Gaseous Hydrogen"

report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Inst. for Nuclear Research
Lab. of Nuclear Problems
Lab. of Theoretical Physics

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

ACCESSION NR: AP4042565 S/0056/64/046/006/2042/2045

AUTHORS: Dzhelepov, V. P.; Yermolov, P. F.; Katy*shev, Yu. V.; Moskalev, V. I.; Fil'chenkov, V. V.; Friml, M.

TITLE: Catalysis of the nuclear $d + d \rightarrow He^3 + n$ fusion reaction by negative muons

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 2042-2045

TOPIC TAGS: nuclear fusion, muon, mu meson catalysis, negative mu meson, hydrogen, deuterium

ABSTRACT: This is a continuation of earlier research on mesic-atom processes in gaseous hydrogen (V. P. Dzhelepov et al., Proc. 1962 Intern. Conf. on High Energy Physics at CERN, Geneva, 1962, p. 484. V. P. Dzhelepov, At. energiya v. 14, 27, 1963. V. P. Dzhelepov et al., ZhETF v. 42, 439, 1962), and is aimed at observation of the previously unobserved reaction $d\mu + d \rightarrow dd\mu \rightarrow He^3 + n + \mu^-$. This

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reaction is one of the fusion reactions

$$d\mu + d \rightarrow dd\mu \rightarrow \begin{cases} t + p + \mu^- \\ He^3 + n + \mu^- \\ p\mu + t \\ He^3\mu + n \\ t\mu + p \end{cases}$$

which were investigated earlier. The experimental conditions made it also possible to register reaction (1) and obtain some estimates of the yields of reactions (3) and (4). The tests were made with a diffusion chamber filled with deuterium to a pressure of 7.2 atm, where 20 events of the hitherto unobserved reaction (2) were detected. The ratio of the yields of reactions (2) and (1) is 1.20 ± 0.37. Estimates of the relative yields of reactions (3) and (4) give, with a probability of 90%, w(3)/w(1) < 0.13 and w(4)/w(2) < 0.13. The yield of the reaction (1) agrees with the data obtained by the authors earlier, but the yields of reactions (1) and (2) measured in

Card 2/3

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ACCESSION NR: AP4042565

the experiments exceed by one order of magnitude those that can be expected on the basis of the data on reaction (1) obtained in liquid deuterium by several authors. Estimates of the yield of reaction (5) call for additional data reduction and will be published later. Orig. art. has: 2 figures and 5 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 10Feb64 DATE ACQ: ENCL: 00

SUB CODE: NP NR REF SOV: 003 OTHER: 005

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEV, Yu.V.; NOVIKOV, D.L.; POLFEROV, E.A.; DMITRIYEVSKIY, V.P., prof., dokter fiz.-mat. nauk, red.; KRASNOBRODSKAYA, L.L., red.; BOGATOVA, V.N., red.-leksikograf

[English-Russian dictionary on charged particle accelerators] Anglo-russkii slovar' po uskoritseliam zariazhennykh chastits. Moskva, Sovetskaia entsiklopediia, 1965. 323 p. (MIRA 18:10)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEVA, A.V.

EXCERPTA MEDICA Sec 7 Vol 13/4 Pediatrics Apr 59 2)

913. A GENERALIZED VIRAL DISEASE OF THE SALIVARY GLANDS IN A 25-DAY-OLD CHILD (Russian text) - Katysheva A. V. - PEDIATRIYA 1958, 34 (11-14) Illus. 4

The infant died on the 25th day of life, with symptoms of cardiac insufficiency. Postmortem examination revealed pneumonitis and haemorrhages in the visceral pleura. Giant cells were found, with cytomegaly in the kidneys, brain and lungs.

Anigstein - Galveston, Tex. (L, 7)

Children's Hospital #11, Cerromeyskogo rayon - Moscow

Pathoanatomical dept - Children's clinic hospital No. 2, im I.V. Rusakov.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

VISHNEVETSKAYA, L.O.; VOYT, Ye.B.; KATYSHEVA, A.V.

Morphological changes in the lungs in Pneumocystis carinii pneumonia. Pediatriia 37 no.9:31-32 S '59. (MIRA 13:2)

1. Iz patologoanatomicheskogo otdeleniya (zaveduyushchiy - doktor med.nauk L.O. Vishnevetskaya) Detskoy klinicheskoy bol'nitsy No.2 imeni Rusakova (glavnyy vrach - zasluzhennyy vrach RSFSR dotsent V.A. Kruzhkov).
(PNEUMONIA INTERSTITIAL PLASMA CELL pathol.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

VISHNEVETSKAYA, L.O.; VOIT, Ye.B.; KATYSHEVA, A.V.

Morphology of intestinal disease in children in the first months of life caused by pathogenic strains of Escherichia coli. Pediatriia 38 no.1:27-31 '60. (MIRA 13:10)
(ESCHERICHIA COLI) (INTESTINES—DISEASES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

VISHNEVETSKAYA, L.O., doktor med.nauk; VOYT, Ye.B.; KATYSHEVA, A.V.; RABINOVICH, D. Ya; FRIDMAN, E.Ye.; SHALEVICH, M.A.

Morphology of intestinal diseases caused by pathogenic strains of Escgerichia coli in children a few months old. Pediatria 38 no.4:27-31 Apr '60. (MIRA 16:7)
(ESCHERICHIA COLI)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEVTSEVA, V.G.; LEONOVA, N.V.

Some data on the study of rhubarb in the Karaganda Botanical Garden.
Trudy Inst.bot.AN Kazakh.SSR 17:128-134 '63. (MIRA 17:3)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEVTSEVA, V. G.

"Flora of the Coast of the Caspian Sea Between the Volga and the Ural Rivers." Acad. Sci. Kazakh SSR, Inst. of Botany, Alma-Ata, (1955). (Dissertation for the Degree of Candidate of Biological Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEVTSEVA, V.G.

KATYSHEVTSEVA, V.G.

Geobotanical description of the northern coast of the Caspian Sea. Trudy Inst. bot. AN Kazakh. SSR 5:30-88 '57. (MLRA 10:9)
(Caspian Sea region--Phytogeography)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEVTSEVA, V.G.

Alternations in the plant cover along the northern shore of the Caspian Sea. Trudy Inst.bot.AN Kazakh.SSR 8:43-85 '60. (MIRA 13:10)
(Caspian Depression--Plant succession)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHEVTSEVA, V.G.

Rhubarbs in the Karaganda Botanical Garden. Trudy Inst.bot.AN Kazakh.SSR 14:157-169 '62. (MIRA 16:4)
(Karaganda--Rhubarb)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

USSR/Medicine - Arsenic and Arsenic Compounds May 49

Medicine - Drugs

"Polymeric Arseno Compounds," M. Ya. Kraft, V. V. Katyshkina, All-Union Sci Res Chemicophar Inst imeni S. Ordzhonikidze, 3 pp

"Dok Ak Nauk SSSR" Vol LXVI, No 3

It has been previously shown by determining molecular weight of certain forms of salvarsan that it is a polymeric compound. Mixtures of arseno compounds are not explained by the old viewpoint. Obtaining such compounds is a corroboration of their [illegible]

52/49T50

[redacted]

USSR/Medicine - Arsenic and Arsenic Compounds (Contd) May 49

polymeric structure. Submitted by Acad A. N. Nesmeyanov, 14 Mar 49.

52/49T50

[redacted]

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

USSR/Chemistry - Phosphorus Organic Compounds Oct 52

"Concerning the Reaction for Preparing Chlorides of Aromatic Esters of Phosphoric Acid. A New Type of Cationic Catalysis," M. Ya. Kraft, V. V. Katyshkina, All-Union Sci Res Chemicopharmaceutical Inst im S. Orkzhonikidze

DAN SSSR, Vol 86, No 4, pp 725-728

In studying the reaction between phenols and $POCl_3$, it was noticed that in some expts the reaction would not give satisfactory results but in others the reaction proceeded at a satisfactory speed.

264T17

It was found that acceleration was due to impurities in the starting materials, namely, the presence of cationic catalysts, such as Na, extracted from the glass of the reaction vessel. Using NaCl catalyst, chlorides of the following esters were prepd: m-nitrophenol ester of phosphoric acid, p-nitrophenol ester of phosphoric acid, 2,4-dinitrophenol ester of phosphoric acid, and 2,4,6-trinitrophenol ester of phosphoric acid. Presented by Acad A. N. Nesmeyanov.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHKINA, V. V.

USSR/Chemistry - Oxidation

Card 1/1 Pub. 22 - 24/47

Authors : Kraft, M. Ya., and Katyshkina, V. V.

Title : Oxidation of salvarsan and novarsenol with elementary oxygen

Periodical : Dok. AN SSSR 99/1, 89-92, Nov 1, 1954

Abstract : The oxidation reactions of salvarsan and novarsenol, which is a product of the reaction between salvarsan and rongalite (formaldehyde addition product), is described. It was established that As in the novarsenol serves as an oxygen carrier and that novarsenol is capable of catalyzing such substances which are capable of reducing arsenoxide type compounds. The toxicity of novarsenol, when exposed to air, is discussed. Ways of protecting novarsenol against the effects of air are listed. Six references: 5-German and 1-USSR (1910-1949). Table; graph.

Institution : The S. Ordzhonikidze All-Union Scientific Research Chem-Pharmaceutical Institute

Presented by: Academician A. N. Nesmeyanov, June 11, 1954

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KRAFT, M Ya.; KATYSHKINA, V.V.

Reactions in carboxylic acid - thionyl chloride systems. New type of cationic catalysis. Dokl. AN SSSR 109 no.2:312-314 Jl '56. (MLRA 9:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. Predstavleno akademikom A.N. Nesmeyanovym.
(Acids, Fatty) (Thionyl chloride)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

AUTHORS: Kraft, M. Ya., Katyshkina, V. V. SOV/79-29-1-14/74

TITLE: A New Type of Cation Catalysis (Novyy tip kationnogo kataliza) II. The Reaction of Carboxylic Acids With Phosphorus Trichloride (II. Reaktsiya karbonovykh kislot s trekhkhloristym fosforom)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 59-63 (USSR)

ABSTRACT: The authors have previously shown that neutral salts (NaCl, KCl and others) may act as very active catalysts in several organic reactions. They discovered this property in connection with the reaction of phenols with $POCl_3$ (Refs 1, 2). $POCl_3$ reacts easily and promptly in the presence of neutral salts, even with those phenols that are otherwise not reactive (nitro-phenols, picric acid). The dependence of reaction acceleration on the constant of dissociation of phenol led to the assumption that the mechanism of the catalytic effect of the neutral salts is due to the transfer of the cation:

$$ArO^-H^+ + Na^+Cl^- \rightleftarrows ArONa + HCl \quad (1)$$
$$ArONa + POCl_3 \rightarrow ArOPOCl_2 + NaCl.$$

It was assumed that this catalytic activity of the neutral

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SOV/79-29-1-14/74

A New Type of Cation Catalysis. II. The Reaction of Carboxylic Acids With Phosphorus Trichloride

salts might also occur in several other reactions. In fact, its effect was also found in the reaction of carboxylic acids with thionyl chloride (Ref 3). It was a quite natural thing to substitute the latter by PCl_3. Although this substitution had already been known for a long time (Ref 6) (e. g. in the case of the synthesis of chloric acid anhydrides of carboxylic acid) no details have hitherto been published concerning the mechanism. Anyway, the different processes (4) (5) (6) (7) of this reaction show that no details have hitherto been known about it. Also in this case the reaction acceleration depends to a great extent upon the dissociation constant of the acid. It is highest in the case of strong acids. If trichloroacetic acid is used the constant of reaction speed grows e. g. by the fourteen fold, in the case of monochloroacetic acid it grows only by the four fold. The authors are of the opinion that the possibility of a catalytic acceleration of the above reaction by means of neutral salts may be best explained by the reaction process (6) according to Lucas, Pressman (Ref 7). Kinetics of the reaction of carboxylic acids with PCl_3 is shown

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

SOV/79-29-1-14/74

A New Type of Cation Catalysis. II. The Reaction of Carboxylic Acids With Phosphorus Trichloride

in the figure. There are 1 figure and 10 references, 3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Chemo-Pharmaceutical Scientific Research Institute imeni S. Ordzhonikidze)

SUBMITTED: May 14, 1958

Card 3/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

AUTHORS: Katyshkina, V. V., Kraft, M. Ya. SOV/79-29-1-15/74

TITLE: A New type of Cation Catalysis (Novyy tip kationnogo kataliza) III. Reactions of Chloric Acid Anhydrides of Carboxylic Acids With Acids and Phenols (III. Reaktsii khlorangidridov karbonovykh kislot s kislotami i fenolami)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 63-68 (USSR)

ABSTRACT: Basing on previous papers (Refs 1-4) on the catalytic role of neutral salts in several organic reactions, two reactions are described in the present case.

$$RCOOH + RCOCl \rightarrow (RCO)_2O + HCl$$

$$ArOH + RCOCl \rightarrow ArOCOR + HCl$$

Both reactions correspond to the conditions under which a catalytic activity of neutral salts may proceed (Ref 1); one component of acid character can thus participate in the transference of the cation and the other possesses a mobile halogen atom. The first reaction does not only make possible a further field of application of the new type of cation catalysis discovered by the authors but also offers a method for the synthesis of acid anhydrides. The catalytic effect of neutral salts in reactions of carboxylic acids with chloric

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acid anhydrides was investigated in many cases. As in earlier cases (Refs 1, 2), the reaction kinetics was judged according to the speed of precipitation of HCl. Figure 1 gives the results. Thus, it can be seen that the greatest reaction acceleration takes place in trichloroacetic acid in the case of an addition of KCl. Without a catalyst, however, it is reduced by its six fold. This is a confirmation of the already earlier found regularity (Refs 1-4) also in the reaction of carboxylic acid with its chloric acid anhydrides. Also in the latter case the catalytic activity of the neutral salts depends highly upon the dissociation constant of one of the components. The experiments gave high yields in acid anhydrides (especially with a great excess of acid chloride) so that this reaction can be recommended as a preparative method of synthesis. The use of the cation catalysis in alkylation reaction of phenols was investigated in the case of reaction of 2,4-dinitro-phenol with the chloric acid anhydrides of chloroacetic- and butyric acid. Figure two gives the results. As this reaction acceleration with neutral salts depends upon the dielectric

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

SOV/79-29-1-15/74

A New Type of Cation Catalysis. III. Reactions of Chloric Acid Anhydrides of Carboxylic Acids With Acids and Phenols

constants of the chloric acid anhydride of carboxylic acid an ion mechanism of catalytic activity is thus implied and the above mentioned regularity is confirmed.
There are 2 figures, 1 table, and 11 references, 8 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemo-Pharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED: May 14, 1958

Card 3/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHKINA, V.V.; KRAFT, M.Ya.

New type of cation catalysis. Part 4: Catalytic effect of phosphorus pentachloride in the reaction of phenols with phosphoryl chloride. Zhur.ob.khim. 32 no.9:3096-3098 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.
(Phosphorus chloride) (Phenols) (Phosphoryl chloride)

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KATYSHINA, V.V.; KURT, V.G.; KAPLAN, S.A.

"Measurements of scattered U.V. radiation (1216A and 1300A) in the upper atmosphere."(USSR)

Report submitted for the COSPAR Fifth International Space Science Symposium, Florence, Italy, 8-20 May 1964.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYSHKINA, V.V.; GOL'TSOVA, R.G.; KRAFT, M.Ya.

Chemistry of nitranol and its production. Khim. i med. no.16: 11-14 '61. (MIRA 17:8)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

DMITRIYEV, A.B.; KATYUSHINA, V.V.; SOROKIN, L.S.

Ionization chamber and counter for recording the emission in the H_{α} line. Prib. i tekh. eksp. 9 no.4:81-84 Jl-Ag '64. (MIRA 17:12)

1. Institut prikladnoy geofiziki AN SSSR.

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radiation counter

ABSTRACT: Photon counters used in investigations of scattered UV radiation [illegible] the upper atmosphere are described. The two counters, of the SFM-1-type, are filled

Card 1/2

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Po-4/Pe-5/Pq-4/Pe

/EEC(t)/EWA(b)

/0243/0247

AUTHOR: Katyushin

TITLE: Measurements of the scattered [illegible] radiation at the height of 500 km

3, no. 2, 196

second counter [illegible] flight [illegible] the first [illegible] in the second and

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descent. During the second and [illegible] Absolute values of the radia[illegible]

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

ACC NR: AP6034263 (N) SOURCE CODE: UR/0390/66/029/005/0597/0600

AUTHOR: Kraft, M. Ya.; Katyshkina, V. V.; Pershin, G. N.; Bogdanova, N. S.

ORG: All-Union Scientific Research Chemical and Pharmaceutical Institute im. S. Ordzhonikidze, Moscow (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut)

TITLE: Cyclic oxocompounds as potential antiviral agents

SOURCE: Farmakologiya i toksikologiya, v. 29, no. 5, 1966, 597-600

TOPIC TAGS: cyclic oxocompound, antivirus agent, drug effect, pharmacology, virus, virology, nucleic acid, protein

ABSTRACT: The antiviral properties of the compounds in Table 1 were determined. These compounds were tested on influenza RR-8 type A virus *in vitro* and *in ovo* in tissue cultures. All possessed antiviral activity *in vitro* and some inhibited viral growth in chick embryo epithelium. These cyclic oxocompounds are highly reactive and are thought to produce their inhibitory activity by acting on viral protein in such a way that the viruses cannot adhere to the cell membranes of sensitive cells. Related compounds have been effective against keratitis infections when applied locally. Quinone derivatives with comparatively low redox po-

Card 1/3 UDC: 615.753.5-017.78+616.988-085.753.5

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ACC NR: AP6034263

Table 1. Activity of mono- and bicyclic compounds

No.	Compound	Activity in g/cm^2	Activity in ovo
I		+ +	•
II		+ +	Not studied
III		+	•
IV		+ +	+ +
V		+	+
VI		+	•
VII		•	Not studied
VIII		•	Not studied
IX		+	Not studied
X		•	Not studied
XI		+ +	•
XII		+ + +	+ +
XIII		+ + + +	•
XIV		+	Not studied
XV		+	Not studied
XVI		+	Not studied
XVII		+ +	•
XVIII		+ + + +	+
XIX		+ +	•
XX		•	Not studied

Explanation of symbols

0 – compound inactive in dilutions of 1:1000;
+ – compound active in dilutions of 1:1000;
++ – compound active in dilutions of 1:10000;
+++ – preparation active in dilutions of 1:100000; ++++ – preparation active in dilutions of 1:1000000; +++++ – preparation active in dilutions of 1:10000000

Card 2/3

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ACC NR: AP6034263

tentials have been discovered to possess good antiviral properties, thus refuting a theory that antiviral activity and high Eh were connected. The compounds involved in the present study were tested more for their effects on amino groups of nucleic acids and proteins with emphasis on their extracellular interference with the virus and only secondarily for their intracellular effects on reproducing viruses. The object was to find a compound that reacts easily with viral protein but which is comparatively indifferent to the protein of the host cell. The configuration of the molecule of the coumpound is very important and plays a great role in the specificity of the drug. Little antiviral activity was displayed by 4-hydroxy-beta-napthoquinone and its tautomeric form 2-hydroxy-alpha-napthoquinone. The most effective compound was 7-hydroxy-beta-napthoquinone. The activities of the other compounds tested are shown in Table 1. The most effective virus neutralizing compounds (no. I, II, III, VIII, XI, and XV) were used in the treatment of pneumonia in white mice, but were not effective. Orig. art. has: 1 table. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 20Dec65/ ORIG REF: 002/ OTH REF: 005

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

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18.1200

28547
S/137/61/000/009/019/087
A060/A101

AUTHORS: Chipizhenko, A.I., Katyshkova, A.Ya., Golubkov, M.K.

TITLE: Tendency of copper-beryllium alloys to form blisters under heating in an ammonia environment

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 9, 1961, 41, abstract 9D305 ("Tr. Gos. n.-i. i poyektn. in-ta po obrabotke tsvetn. met.", 1960, no. 18, 197-208)

TEXT: The influence of the chemical composition of bronze upon the tendency to form blisters under heating in an ammonia invironment was investigated. Strips of bronze grades Бр.Б 2.5 (Br.B 2.5) containing (in percent): Be 1.53-2.43, Ni 0.18-0.49, and admixtures of Ti 0.18-0.73 and Co 0.3; БНТ 1.9 and БНТ 1.7 (BNT 1.9 and BNT 1.7) were heated in an ammonia environment at 770-780 and 820°C (for the latter two grades) for various periods of time. It was established that standard bronze grade Br. B 2.5 is most apt to form blisters. Under heating for the period of one hour in strips with an addition of 0.28-0.73% Ti the blisters did not arise. On strips of bronze containing 1.68-2.32% Be and an admixture of Ti no blisters were formed even after a two-hour heating. Under heating of strips

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28547
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A060/A101

Tendency of copper-beryllium alloys ...

in a H_2 atmosphere at 820°C for 20 min no blisters were formed on strips of bronze containing an admixture of Ti with Ni, while on strips of bronze Br. B 2.5 a large number of blisters was formed. It is indicated that the formation of blisters on strips of beryllium bronze under heating in an ammonia atmosphere is connected with defects in the ingot and the action of H_2 from the surrounding environment. An admixture of Ti reduces the tendency of strips to form blisters. It is recommended to carry out the casting of beryllium bronze ingots by the semicontinuous or flowless method, and not to allow a heating $>780°C$ and long soakings in annealing strips or parts in an ammonia environment.

A. Babayeva

[Abstracter's note: Complete translation]

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUKHIN, B.P., inzh.

New hydraulic drive for one-bucket excavators. Biul. tekh. infrom. 4 no.5:20-22 My '58. (MIRA 11:8)

(Excavating machinery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUKHIN, N.Ya.; ZHDANOV, N.S.

Conference on intestinal diseases and parasites. Zdrav.Ros. Feder. 3 no.8:44-45 Ag '59. (MIRA 12:11)

1. Korrespondent zhurnala "Zdravookhraneniye Rossiyskoy Federatsii" (for Katyukhin). 2. Zaveduyushchiy epidemiologicheskim otdelom Khabarovskogo instituta epidemiologii i gigiyeny (for Zhdanov).
(INTESTINES--DISEASES--CONGRESSES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUKHIN, N.Ya.; ZHUZHZHAIKIN, A.P.

Some results of the work under new conditions. Zdrav. Ros. Feder. 4 no.3:19-22 Mr '60. (MIRA 13:5)

1. Iz Amurskogo oblzdravotdela.
(TAMBOV DISTRICT (AMUR PROVINCE)--PUBLIC HEALTH, RURAL)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUKHIN, N.Ya.

Interdistrict conference of medical personnel. Zdrav. Ros. Feder. 4 no.8:42-44 Ag '60. (MIRA 13:9)

1. Korrespondent zhurnala "Zdravookhrananiye Rossiyskoy Federatsii."
(AMUR PROVINCE—MEDICAL PERSONNEL)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

OBUKHOV, P.F.; KATYUKHIN, N.Ya.

Activity of the Amur Province Society of Hygienists, Sanitation Specialists, Epidemiologists, Microbiologists, and Specialists in Infectious Diseases. Zdrav. Ros. Feder. 4 no.7:45-46 Je '60. (MIRA 13:9)

(AMUR PROVINCE--PUBLIC HEALTH)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

SHEVCHENKO, N.F., otv. red.; BABAYEVA, Ye.K., red.; BELOUSOV, Ye.K., red.; VINNIK, S.A., prof., red.; GERSHEVICH, S.A., red.; IOSSET, G.Ya., prof., red.; KATYUKHIN, N.Ya., red.; KISELEVA, A.S., red.; MENSHCHIKOVA, L.I., red.; NADGERIYEV, M.K., dots., red.; OBUKHOV, P.F., red.; RUTENBURG, D.M., red.; FAYN, M.A., dots., red.; OVECHKINA, L.S., red.

[Public health in Amur Province; collection of articles] Zdravookhranenie Amurskoi oblasti; sbornik statei. Blagoveshchensk, Amurskoe knizhnoe izd-vo, 1962. 236 p. (MIRA 17:7)

1. Amur (Province) Otdel zdravookhraneniya. 2. Zaveduyushchiy Gospital'noy khirurgicheskoy klinikoy Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Iosset). 3. Blagoveshchenskiy meditsinskiy institut, Amurskaya oblast' (for Obukhov). 4. Zaveduyushchiy Klinikoy obshchey khirurgii Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Nadgeriyev). 5. Zaveduyushchiy Kafedroy otorinolaringologii Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Vinnik). 6. Zaveduyushchiy Kafedroy sudebnoy meditsiny Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Fayn).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

MESHKOVOY, N.P.; KUZYAKIN, Yu.I.; KATYUKHIN, V.Ye.; CGEREDINOV, N.M.

Independent data input on the magnetic drum of the "Ural-2" electronic digital computer. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. 16 no.10:47-49 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUSHCHENKO, S.K.

Efficient limits in using truck haulage in open pits. Gor. zhur. no.7: 62 Jl '62. (MIRA 15:7)

1. Ispolnyayushchiy obyazannosti direktora Gosudarstvennogo instituta po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh, Leningrad.

(Mine haulage)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUSHCHENKO, S.K.

Research carried out by the State Institute for the Design and Planning of Establishments of the Ore Mining industry. Gor.zhur. no.4:13-15 Ap '64. (MIRA 17:4)

1. Glavnyy inzhener Gosudarstvennogo soyuznogo instituta po proyektirovaniyu predpriyatiy gornorudnoy promyshlennosti.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

NEYMAN, M.B.; FEKLISOV, G.I.; Prinimal uchastiye: KATYUSHIN, A.A., student

Kinetic tracer method for investigations on the mechanism of complex chemical and biochemical processes. Part 10: Rate constant of the reaction between an acetyl radical and molecular oxygen. Zhur. fiz. khim. 35 no.5:1064-1067 My '61. (MIRA 16:7)

1. Institut khimicheskoy fiziki AN SSSR (for Neyman, Feklisov).
2. Gor'kovskiy gosudarstvennyy universitet (for Katyushin).
(Acetaldehyde) (Carbon oxide)
(Chemical reaction, Rate of)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUSHIN, M. [Katsiushyn, M.]

"The measure of time; a tale" by L.Arabei. Reviewed by M.Katsiushyn. Rab.i sial. 38 no.12:20 D '62. (MIRA 16:1)
(Arabei, Lidziia)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUSHIN, Yu.I., inzhener.

Work experience in automatic welding using copper sliding blocks.
Sudostroenie 22 no.11:35-38 N '56. (MLRA 10:2)

(Electric welding)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

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87976
S/049/60/000/010/014/014
E032/E414

AUTHOR: Katyushina, V.V.

TITLE: On the Absorption of Solar HL_α Emission in the Earth's Atmosphere

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, No.10, pp.1549-1552

TEXT: One of the strongest lines in the ultraviolet part of the solar spectrum is the L_α line of hydrogen $\lambda = 1215.7$ Å. According to the latest rocket measurements, the intensity of this line is 1 to 5 erg/cm^2 sec. Rocket experiments show that this radiation is strongly absorbed in the Earth's atmosphere at altitudes of 75 to 110 km. However, it is still not clear which component of the atmosphere is responsible for the absorption of HL_α radiation. It is suggested that the problem may be settled by studying the variation in the intensity of the line with altitude. The variation of the intensity with altitude follows the usual exponential law

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S/049/60/000/010/014/014
E032/E414

On the Absorption of Solar HL_α Emission in the Earth's Atmosphere

Eq.1. $$\frac{J_\lambda^{II}}{J_\lambda^{I}} = e^{-k_\lambda m} = e^{-\sigma_\lambda N}, \quad (1)$$

where J_λ^{I} is the intensity of radiation entering a layer of the atmosphere having a mass m and containing N molecules and atoms, J_λ^{II} is the intensity after passing through the layer, k_λ is the mass absorption coefficient and σ_λ is the absorption cross-section. To begin with, the present author discusses the absorption of H_α radiation by atomic hydrogen. The presence of atomic hydrogen in the atmosphere is suggested by the fact that L_α emission takes place in atmospheric layers below 120 km (Kupperain et al, Ref.9). Here, Eq.(1) cannot be used directly since the absorption coefficient is not constant. One must take into account the fact that the absorption coefficient changes rather rapidly from the centre of the line towards the wing. It is therefore necessary to

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E032/E414

On the Absorption of Solar HL_α Emission in the Earth's Atmosphere

know both the profile of the solar line and the variation of the absorption coefficient of atomic hydrogen with wavelength within the line. In the present calculations it is assumed that the solar line has a Doppler profile so that the energy contained in the line after passing through a layer containing absorbing atoms may be written down in the form

Eq.2.
$$\exp\left[-(\lambda-\lambda_0)^2/\Delta\lambda_D^2\right] \qquad W = J_0 \int_{-\infty}^{+\infty} e^{-\frac{(\lambda-\lambda_0)^2}{\Delta\lambda_D^2}} e^{-k(\lambda)\dot{N}}\, d\lambda. \tag{2}$$

where $k(\lambda)$ is the absorption coefficient, J_0 is the maximum intensity of the line and $\Delta\lambda_D$ is the Doppler width. It is shown in the present paper that if HL_α radiation is absorbed only by atomic hydrogen and molecular oxygen, then the expression for the radiant energy recorded at an altitude h is given by

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E032/E414

On the Absorption of Solar HL_α Emission in the Earth's Atmosphere

Eq.5.

$$W(h) = 0{,}278\, J_0 e^{-1.51\cdot 10^{-8}\sqrt{N_H(h)} - \sigma_{O_2} N_{O_2}(h)} \qquad (5)$$

where N_H and N_{O_2} are the number of particles of hydrogen and oxygen respectively. Next the author considers the absorption of HL_α radiation by NO molecules. The photo-ionization threshold at $\lambda_0 = 1340$ Å and the cross-section σ in the region of 1200 Å is 1.4×10^{-18} cm^2 (Watanabe et al, Ref.11). The present author has used published data to calculate the concentration of hydrogen and NO in the atmosphere in the altitude range 85 to 100 km. These calculations suggest that the variation in the intensity of HL_α with altitude may be explained by the presence of water vapour with a relative concentration of 10^{-4}, or atomic hydrogen with a concentration of 10^{10} cm^{-3}, or nitric oxide with a content of 10^{17} molecules in a column of unit cross-section. The latter

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E032/E414

On the Absorption of Solar HL_α Emission in the Earth's Atmosphere

corresponds to a reduced nitric oxide thickness of 0.004 cm (NTP). However, it is concluded that the absorption by atomic hydrogen is the most probable. This is supported by the following facts: 1) L_α emission by atmospheric layers below 120 km; 2) the estimate of the number of NO molecules obtained from L_α absorption in the atmosphere is by an order of magnitude greater than that obtained from the ultraviolet data reported by Jursa et al (Ref.16); 3) absorption by water vapour would require too high a concentration of this vapour between 80 and 100 km; 4) hydroxyl emission is observed in the spectrum of the night sky at 75 to 80 km and this can only be produced in the presence of atomic hydrogen. The measured variation of intensity of HL_α emission as a function of the mass of the atmosphere, as reported in the literature, is found to be roughly of a parabolic form and this is most easily explained by assuming that absorption is due to atomic hydrogen. Acknowledgments are expressed to G.S.Ivanov-Kholodnyy for his advice. There are 1 figure, 1 table and 19 references: 4 Soviet and 15 non-Soviet.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

87976

S/049/60/000/010/014/014
E032/E414

On the Absorption of Solar HI_α Emission in the Earth's Atmosphere

ASSOCIATION: Akademiya nauk SSSR Institut pridladnoy geofiziki (Academy of Sciences USSR Institute of Applied Geophysics)

SUBMITTED: March 14, 1960

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

L 16551-65 EWT(m) AEDC(b)/SSD/AFWL/DIAAP

ACCESSION NR: AP4044670 S/0120/64

AUTHOR: Dmitriyev, A. B.; Katyushina, V. V.; Sorokin,

TITLE: Ionization chamber and counter for recording radiation in the H_α line

SOURCE: Priborv* i tekhnika eksperimenta, no.

Ionization chamber, gas discharge counter, ation measurement, night sky luminescence measurement, line radiation

ABSTRACT: A KFL-2 ionization chamber and an SFM-1 Geiger-discharge counter used in studies of solar radiation
line. The
in diameter and
te coatings on mica plates serve as electrodes
in diameter

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ACCESSION NR: [illegible]

[illegible] is maintained with a 300v potential differe[illegible]
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ACCESSION NR: AP4044670

SUB CODE: ES, NP NO REF SOV: 001 OTHER: 002

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

BABICHENKO, S.I.; KARPINSKIY, I.P.; KAPLAN, S.A.; KATYUSHINA, V.V.; KRYLOV, L.N.; KURT, V.G.; PUSTOVAYT, R.M.; SHIFRIN, A.V.

Studying the scattered ultraviolet radiation in the earth's upper atmosphere. Kosm.issl. 3 no.2:237-243 Mr-Ap '65.

(MIRA 18:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUSHINA, V.V.; KURT, V.G.

Measurements of scattered α-radiation in the upper atmosphere at altitudes up to 500 km. Kosm. issl. 3 no.2:243-247 Mar-Apr '65.

(MIRA 18:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATYUSHINA, V.V.

Intensity measurements of the luminescence of the upper atmosphere based on the triplet lines OI($\lambda \sim$ 1300 Å) at altitudes of 100 to 500 km. Kosm.issl. 3 no.2:248-250 Mr-Ap '65.

(MIRA 18:4)

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of less than 10%. Two experiments were conducted under

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did not change appreciably during the

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L 45937-66 EWT(1) GS

ACC NR: AP6028341 SOURCE CODE: UR/0293/66/004/004/0619/0629

AUTHOR: Katyushina, V. V.

ORG: none

41
B

TITLE: On the passage of solar radiation through the terrestrial atmosphere in the triplets of OI (1300 Å)

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 4, 1966, 619-629

TOPIC TAGS: ~~dispersed radiation~~, solar radiation, ~~zenithal distance~~, ~~radiation transfer, monochromatic dispersion~~ solar radiation intensity

ABSTRACT: The results of computations of the intensity of scattered radiation in the lines of triplet OI ($\lambda \sim 1300$ Å) as a function of the optical thickness are presented. Computations are based on the equation of light scattering developed by Sobolev but adapted to the case of monochromatic dispersion. The absorption of radiation by molecular oxygen is also taken into account. A solution is found for different parameter values, and the results are presented graphically. The values obtained theoretically are found to be several times smaller than those obtained experimentally. The author thanks V. V. Ivanov, A. S. Kaplan, and L. V. Mayorov. Orig. art. has: 4 figures and 34 formulas. [DM]

SUB CODE: 04/ SUBM DATE: 21Oct65/ ORIG REF: 005/ OTH REF: 012/ ATD PRESS: 5060

Card 1/1 hs UDC: 551.521.14

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

S/019/61/000/019/010/019
E039/E412

AUTHORS: Borisevich, Ye.S.; Katyushkin, V.F.

TITLE: GB-type galvanometers for seismic oscillographs

SOURCE: Akademiya nauk SSSR. Institut fiziki Zemli. Trudy, no. 19 (186). Moscow, 1961, Seysmicheskiye pribory, 69-72

TEXT: The authors discuss the characteristics of the ГБ (GB) series of galvanometers, developed at the Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth, AS USSR) a few years ago, and their use in magnetoelectric oscillographs. This series includes the ГБ-III (GB-III), ГБ-IV-М (GB-IV-M) and ГБ-IV (GB-IV) galvanometers, all of them employing the electromagnetic mode of damping. The GB-IV galvanometers are now produced by the Kishinevskiy zavod elektroizmeritel'nykh priborov (Kishinev Electrical Measuring Instruments Plant) and the Moskovskiy radiomekhanicheskiy tekhnikum (Moscow Radiomechanical Tekhnikum). Small numbers of GB-III galvanometers are being turned out at the SKB of the Institute of Physics of the Earth, AS USSR. The GB-III and GB-IV-M galvanometers are interchangeable with the ГЭМЗ-46 (GEMZ-46) galvanometers used in the ОТ-24 (OT-24) and ОС-24

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D039/D112

GB-type galvanometers for .....

(OS-24) ~~ensimetric~~ and seismic prospecting oscillographs. The GB-III galvanometers have been used in conjunction with the ВЭГИК (VEGIK) vibrographs for recording local earthquakes, industrial explosions and the vibrations of structures. In 1959, the Institute of Physics of the Earth, AS USSR, organized the production of the ГБ-III-Б (GB-III-B) galvanometers, having good integrating properties due to a relatively high critical resistance. This high critical resistance, however, hampers their application with the СВК-М (SVK-M) stationary seismographs, but can be reduced by over 6 times by removing the Armco iron core from an insert in the frame of the galvanometer, thus reducing the induction in the working gap by over 2.5 times, a fact discovered by the Tadzhikskaya kompleksnaya seysmologicheskaya ekspeditsiya (Tadzhik Comprehensive Seismological Expedition). This discovered to the GB-III galvanometer being used as a basis for the new ГБ-III-БС (GB-III-BS) seismic galvanometers with parameters similar to those of the ГК-VII (GK-VII) stationary galvanometers. The GB-III-B and GB-III-BS galvanometers are small in size and are thus suitable for oscillographs. The ГБ-III-БС0,8 (GB-III-BS-0,8) galvanometer has the parameters closest to those of the GK-VII, but is 15 mm longer than all other galvanometers of the GB-III-BS and GB-III-B series. As the GB-IV-M

Card 2/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

ACC NR: AR7004305

SOURCE CODE: UR/0271/66/000/011/A021/A022

AUTHOR: Katyushkin, V. G.

TITLE: Semiconductor multichannel digital-analog converter with voltage memory

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A171

REF SOURCE: Sb. Vychisl. tekhn. v upr. M., Nauka, 1966, 191-196

TOPIC TAGS: digital analog converter, semiconductor converter, digital computer

ABSTRACT: A semiconductor multichannel digital-to-analog converter is described which was used jointly with a digital computer and which represents a "reflection" device. The required coordinates are recorded in the storage unit of the digital computer. Then, the storage cyclically delivers a parallel code which is fed to registers. From the latter, the siganls go to summation matrices which produce analog voltages. These voltages -- via amplifiers -- are applied to voltage-storage units, from where the signals are fed to deflection devices. Circuits and individual assemblies of the converter are described. Six figures. T. R. [Translation of abstract]

SUB CODE: 09

Card 1/1

UDC: 62-52:681.142.621

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

L 21663-66

ACC NR: AP6001582 (A) SOURCE CODE: UR/0120/65/000/006/0154/0157

AUTHOR: Katyushkin, V. G.; Momdzhi, V. G.

ORG: Air-Force Engineering Academy (Voyenno-vozdushnaya inzhenernaya akademiya)

TITLE: Statistical study of delays between the firing and discharge impulses in ISSh 100-3 flash lamp

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 154-157

TOPIC TAGS: flash lamp / ISSh 100-3 flash lamp

ABSTRACT: Generally, the time delay between the firing pulse and the flash-producing main discharge depends on: (1) Main-gap voltage; (2) Firing-gap energy; (3) Main-gap energy liberated during the preceding flash; (4) Time elapsed from the preceding flash; (5) Average power dissipated in the lamp. It is found that only the first factor has an important effect; the contribution of the other four factors is minor. At low (3—4 kv) main-gap voltages, the mean delay may reach a value as high as 100 microsec; at 6.25 kv, the delay is only 1 microsec; in the latter case,

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UDC: 621.32:535.89

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

L 21663-66

ACC NR: AP6001582

however, the probability of spurious discharge becomes serious. Histograms of distributions of delays, for four main-gap voltages, are constructed on the basis of 1500 experiments. The statistical-character spread determined on four lamps is found insignificant. The above data shows that the flash delay should often be taken into account when using ISSh 100-3 lamps in gating circuits. Orig. art. has: 5 figures.

SUB CODE: 09 / SUBM DATE: 30Nov64 / ORIG REF: 003 / OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KLYEMAN, Ye.A.; KATYUZHANSKIY, G.A.

"Mathematical statistics in engineering" by A.M.Dlin. Reviewed by E.A.Kleiman, G.A.Kotiuzhanskii. Standartizatsiia 25 no.12:55-56 D '61. (MIRA 14:11)

(Mathematical statistics)
(Mechanical engineering)
(Dlin, A.M.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

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KATZ, A.

Protective device for fast chipping. p. 5. TEHNICA NOUA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 2, no. 27, Dec. 1955

So. East European Accessions List Vol. 5, No. 9 September, 1956

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

NAUR, Peter; BACKUS, J.W.; BAUER, L.F.; GREEN, J.; KATZ, C.; McCARTHY, J.; PERLIS, A.J.; RUTISHAUSER, H.; SAMELSON, K.; VAUQUOIS, B.; WEGSTEIN, J.H.; WIJNGAARDEN, A., van; WOODGER, M.; REVESZ, Gyorgy [translator]

Report on the algorithmic language ALGOL 60. Mat kut kozl MTA 6 Series B no.4:425-465 '61.

1. ALGOL-bizottsag tagjai (for Backus, Bauer, Green, Katz, McCarthy, Perlis, Rutishauser, Samelson, Vauquois, Wegstein, Wijngaarden, Woodger). 2. Szerkeszto "Communications of the ACM" (for Naur). 3. Magyar Tudomanyos Akademia Szamitastechnikai Kozpont (for Revesz).

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KATZ, D., Dr., medic primar.

Study of the physiopathological bases of a judicious therapy of auricular fibrillation. Med. int., Bucur. 8 no.3:443-451 July 56.

(AURICULAR FIBRILLATION, therapy
indic. & physiopathol. basis)

RUMANIA/Farm Animals - Honey Bee

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

Abstr Jour: Ref Zhur - Biol., No 6, 1958, No26267

Author : Katz Francisc
Inst : Not Given
Title : Queen-Rearing in Multi-Compartment Nuclei (Opyt vyrashchivaniya matok v mnogokamernykh nukleusakh)

Orig Pub : Apicultura, 1957, No 4, 20-23

Abstract : The article gives the description of a hive containing 10 nuclei with 2 frames and 70 worker-bees in each. Towards the 20th of May, 8 fertilized queens were obtained. After 5 days, a second batch of queen cells was put in, and in June all 22 queens were obtained.

Card : 1/1

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

SEEWALDT, Rolf, ing.; KATZ, Iosef, ing.

Safety engineering measures regarding the manual loading and unloading of materials. Rev transport 9 no. 11:493-495 N '62.

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PROKOF'YEV, A.A.; KATZ, K.M.

Interdependence between the transpiration in leaves and fruit. Fiziol. rast. 11 no. 3:448-456 '64. (MIRA 17:7)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

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PICK, A.; LANGENDORF, R.; KATZ, L.N.

Aberrant ventricular conduction. Cas.lek.cesk. 99 no.20/21:628-634 20 My '60.

1. Cardiovascular Department, Medical Research Institute, Michael Reese Hospital and Medical Center, Chicago, Illinois.
(HEART BLOCK)

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KATZ, M.Ya.; SHUTOV, V.D.

Specific weight of the grains of clastic quartz and its use as a correlation indication of arenaceous rocks. Lit. i pol. iskop. no.1:143-152 '63. (MIRA 17:3)

1. Geologicheskiy institut AN SSSR.

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KATZ, R.

Improvement of the methods for the planning and determination of the amortization of capital assets. Probleme econ 15 no.2: 105-120 F '62.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATZ, R.

On the revaluation of Rumanian basic funds. Probleme econ 16 no.1: 29-43 Ja '63.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

Katz, S.

RUMANIA/Chemical Technology, Chemical Products and Their Application, Part 4. - Cellulose and Its Derivatives, Paper. H-33

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34638.

Author : S. Katz.
Inst : Not given.
Title : Laboratory Data Concerning Cellulose Manufacturing of Reed by Monosulfite Method.

Orig Pub: Celuloza şi hîrtie, 1956, 5, No 10, 274-277.

Abstract: The scheme of reed processing with Na sulfite moistened with $NaHCO_3$ and the properties of the resulting pulp, as well as the effect of black neutral sulfite liquors at their application to this process on the properties of the resulting hemicellulose are described.

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P/019/62/011/003/004/008
D289/D308

9.3230

AUTHOR: Katz, S.

TITLE: Some physical aspects of transients in an artificial transmission line

PERIODICAL: Archiwum elektrotechniki, v. 11, no. 3, 1962, 431-439

TEXT: The author considers an artificial line consisting of LC circuits. The method of taking into account the damping in these circuits is discussed in general and illustrated by the example of a two-terminal network producing a rectangular pulse. The network consists of the the LC circuits in parallel with each other and with a resistor R_0. Taking into account the interaction of the circuits the author obtains

$$i_1(p) = \frac{A_1(p)}{B(p)} \; ; \quad i_2(p) = \frac{A_2(p)}{B(p)} \; ; \quad i = \frac{A(p)}{B(p)} \qquad (6)$$

i_1 and i_2 being the currents in the circuits and i the total current.

Card 1/3

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The fractions are polynomials in p and LC parameters of the circuits. For a rectangular pulse

$$L_1 = L_3 = \frac{R_0\tau}{4}\ ;\quad C_1 = \frac{4\tau}{\pi^2 R_0}\ ;\quad C_3 = \frac{4\tau}{9\pi^2 R_0}\ . \qquad (7)$$

where τ is the pulse width. [Abstracter's note: The author uses index 3 for the LC parameters of the second circuit, but 2 for its current]. This leads to

$$A_1(p) = \frac{4E\tau}{R_0}(p^2\tau^2 + 9\pi^2)\ ;\quad A_2(p) = \frac{4E\tau}{R_0}(p^2\tau^2 + \pi^2)\ ;$$

$$A(p) = \frac{8E\tau}{R_0}(p^2\tau^2 + 5\pi^2);\quad B(p) = p^4\tau^4 + 8p^3\tau^3 + 10\pi^2p^2\tau^2 + 40\pi^2p\tau + 9\pi^4 \qquad (8)$$

Putting $p\tau = s$ the author finds the original functions using approximate values of the zeros of B(s) obtained by Horner's method. For instance

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$$i(t) = E/R_0 \left[2.5808e^{-2.506\, t/\tau} \sin(2.4474\, t/\tau - 0.1585) + \right.$$
$$\left. + 0.4548e^{-1.494\, t/\tau} \sin(8.3197\, t/\tau + 1.2402) \right]$$

Expressions for i_1, i_2, i are also deduced for the case when the interaction of the circuits is neglected. A graph of all results is given for comparison. It is concluded that the interaction is favorable for the formation of correct pulse shape. The damping parameters do not depend on the load R_0 only if the actual load R is equal to the design value of R_0. Variations occurring in the case $R \neq R_0$ are discussed. There are 5 figures.

ASSOCIATION: Katedra techniki fal ultrakrotkich politechniki Warszawskiej (Department of Ultrashort Wave Technology of the Warsaw Polytechnic)

SUBMITTED: June 14, 1961

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KATS, N.Ya.; KATZ, S.V.; SALOV, I.N.

Russian-Wurmian (Mikulino) interglacial deposits in the Ryasna area, Ponizov'ye District, Smolensk Province. Biul. MOIP. otd. geol. 32 no.2:15-23 Mr-Ap '57. (MIRA 11:3)
(Ponizonv'ye District--Geobotany)

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KATZARSKI, M.

On the measured and directly estimated capacity of the skull.
Folia med. (Plovdiv) 6 no.1:1-7 '64

1. Higher Medical Institute "I.P.Pavlov" in Plovdiv, Bulgaria, Chair of Anatomy (Chief: Prof. D. Stanishev).

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KATZOULOV, At.

Bulgaria

No degree listed

Obstetrics-Gynecology Clinic at the Higher Medical Institute (Vissh Meditsinski Institut), Sofia; Department Head: Professor I. SHTURKALEV.

Sofia, Akusherstvo i Ginekologiya, supplement of Suvremenna Meditsina, No 2, 1962, pp 60-61.

"Encephalitis During Pregnancy and Labor. Case Report"

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IVANOV, Iv.; GIUROVSKI, St.; IVANOVA, R.; MIRKOV, K.; KATZULOV, At.

The colpopuncture method in the diagnosis and treatment of adnexal inflammatory diseases. Akush. ginek. (Sofiia) 4 no.2: 141-143 '65.

1. VMI, Sofiia, Katedra po akusherstvo i ginekologiia (rukovoditel: prof. Il. Shturkalev).

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KAUBI, Johannes, kand. sel'khoz. nauk; AVARSOO, H., red.

[Quality and marketing costs of livestock produce] Loomakasvatus saaduste kvaliteet ja realiseerimis kulud. Tallinn, "Eesti Raamat" 1965. 119 p. [In Estonian] (MIRA 18:12)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KAUBISH, V.K.

Negation delirium and Cotard's syndrome. Zhur. nevr. i psikh. 64 no.6:876-882 '64. (MIRA 17:12)

1. Kafedra psikhiatrii (zaveduyushchiy - prof. O.V. Kerbikov) II Moskovskogo meditsinskogo instituta im. N.I. Pirogova.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

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Use of truxal in the treatment of mental patients. Zhur. nevr. i psikh. 61 no.6:881-885 '61. (MIRA 15:2)

1. Kafedra psikhiatrii (zav. - prof. O.V.Kerbikov) II Moskovskogo meditsinskogo instituta imeni Pirogova.
(MENTAL ILLNESS) (THIOXANTHENE--THERAPEUTIC USE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3

KAUCHY, Josef (Tabor 25, Brno 16)

Note on the Banach's matchbox problem. Mat fyz cas SAV 12 no.1: 28-35 '62.

1. Kabinet matematiky Slovenskej akademie vied, Bratislava.

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KAUCKY, Zdenek, inz.

Design of prestressed concrete cross sections. Inz stavby 12 no. 2: 49-54 F '64.

1. Stavebni fakulta, Vysoke uceni technicke, Brno.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210005-3"